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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/825,048	04/03/2001	George J. Hudak	10003917-1 1993		
75	90 06/19/2003	•			
AGILENT TECHNOLOGIES Legal Department, 51U-PD			EXAMINER		
Intellectual Prop	perty Administration		CHERRY, EUNCHA P		
P.O. Box 58043 Santa Clara, CA			ART UNIT PAPER NUMBER		
			2872		
			DATE MAILED: 06/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati	a No	Applicant(s)	10.				
				, M				
Offic Action Summary	09/825,04	3	HUDAK, GEORGE	J.				
One Action Summary	Examiner		Art Unit					
The MAILING DATE of this communication and	EUNCHA F		2872	Iress				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no ever y within the statut will apply and will t, cause the appli	nt, however, may a reply be tim ory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONE	nety filed s will be considered timely, the mailing date of this cor D (35 U.S.C. § 133).	nmunication.				
1) Responsive to communication(s) filed on 4/4/	<u>03</u> .							
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is i	non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Disposition of Claims	Ex parte Qu	layle, 1935 C.D. 11, 4	53 O.G. 213.					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6) Claim(s) <u>1-20</u> is/are rejected.								
,	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o Application Papers	r election re	quirement.						
	A.F.							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority document								
2. Certified copies of the priority document								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language pro	ovisional app	olication has been rec	eived.	,				
Attachment(s)	p	00 0.0.0. 33 120						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)		·	r (PTO-413) Paper No(s Patent Application (PTC					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Saleh et al.

Saleh et al discloses a gas plasma emission source (page 477, Fig. 13.2-8 (a)) comprising a resonant cavity (see cavity that contains gas in the figure) and a solid state power source (see the electrical elements between the cathode and anode) coupled to the resonant cavity to excite resonant oscillations in the resonant cavity (see page 476).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the

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art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Efthimion in view of Saleh et al.

Efthimion discloses a gas plasma emission source (figure 1A and 1B) comprising: a resonant cavity (12); and a power source coupled to the resonant cavity (34), wherein a coaxial cable is coupled between the power source and the resonant cavity (38 and column 5, lines 54-55) and the resonant cavity includes a tube disposed through the resonant cavity (14). The power source couples into the resonant cavity sufficient power to sustain a plasma in a gas disposed within the resonant cavity (column 9, lines 42-47, less than 100 watts and also see abstract), the plasma constitutes a fluctuation load with respect to the fluctuating load on the power source and the sufficient power is substantially stable with respect to the fluctuating load (column 6, lines 64-67, pressure fluctuation in plasma creates a fluctuating impedance in the plasma source (i.e. load), adding the absorbent reduces the pressure fluctuation, thus reducing the load fluctuation). The spectrographic detector is disposed to sense atomic emissions from a gas within the resonant cavity (column 6, lines 14-34). The gas enters on end of the tube and another end of the tube is an open end and the detector is

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disposed to sense emissions from the open end (see Fig. 1A and 1B).

The power source of Efthimion is not a solid state power source having an amplifier. Saleh et al discloses the solid state power source that has an amplifier (see page 476 under "Examples of Laser Amplifiers" and figure 13.2-8 (a)). It would have been obvious to one of ordinary skill in the art to use a solid state power source instead for the purpose of obtaining a robust power source so that the power source can be last longer.

It is further noted that the reference meets all the claimed structure as set forth in support of a manner of using the device, and therefore inherently must be capable of this use in the same manner as structure of the claims.

Response to Arguments

5. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUNCHA P.

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CHERRY whose telephone number is 703-305-0997. The examiner can normally be reached on M-F 6:30-4:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CASSANDRA SPYROU can be reached on 703-308-1687. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Euncha Cherry

Primary Examiner

June 10, 2003